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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applic			-No file reference	T:			
	ants (or age	nt's file reference	FOR FURTHER ACTION		n of Transmittal of International amination Report (Form PCT/IPEA/416)	
International application No. PCT/EP 03/13329				International filing date (day/month/year) 24.11.2003		Priority date (day/month/year) 05.12.2002	
Interna	ationa	l Pate	nt Classification (IPC) or i	both national classification and IPC	· · · · · · · · · · · · · · · · · · ·		
D06N	/13/ [*]	192			•		
Applic UNIL		R PL	c				
				amination report has been prep e applicant according to Article		ernational Preliminary Examining	
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	Thes	e anr	nexes consist of a total	of sheets.			
				· · · · · · · · · · · · · · · · · · ·			
3.	This	repor	t contains indications i	relating to the following items:			
	l	\boxtimes	Basis of the opinion				
	H						
	III \square	-	Priority				
	111		•	f opinion with regard to novelty	, inventive step	and industrial applicability	
	١٧		•	, ,	, inventive step a	and industrial applicability	
•			Non-establishment of Lack of unity of invertigation Reasoned statement	ntion	ard to novelty, ir	and industrial applicability	
٠	IV		Non-establishment of Lack of unity of invertigation Reasoned statement	ntion under Rule 66.2(a)(ii) with reg utions supporting such statemen	ard to novelty, ir	*	
	IV V		Non-establishment of Lack of unity of inver Reasoned statement citations and explana Certain documents of	ntion under Rule 66.2(a)(ii) with reg utions supporting such statemen	ard to novelty, ir	*	
	IV V		Non-establishment of Lack of unity of inver Reasoned statement citations and explana Certain documents of Certain defects in the	ntion under Rule 66.2(a)(ii) with reg ations supporting such statement ited	ard to novelty, in	*	
	IV V VI VII VIII		Non-establishment of Lack of unity of inventions Reasoned statement citations and explana Certain documents of Certain defects in the Certain observations	ation under Rule 66.2(a)(ii) with regations supporting such statementied international application on the international application	ard to novelty, in	nventive step or industrial applicability;	
	IV V VI VII VIII		Non-establishment of Lack of unity of inver Reasoned statement citations and explana Certain documents of Certain defects in the	ation under Rule 66.2(a)(ii) with regations supporting such statementied international application on the international application	ard to novelty, in	nventive step or industrial applicability;	
	V Vi VII VIII	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Non-establishment of Lack of unity of inventions Reasoned statement citations and explana Certain documents of Certain defects in the Certain observations	ation a under Rule 66.2(a)(ii) with regations supporting such statementied a international application on the international application Date	ard to novelty, in	nventive step or industrial applicability;	
Date c	VI VII VIII of subs	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Non-establishment of Lack of unity of invertigations and explanations and explanations and explanations defects in the Certain defects in the Certain observations of the demand	ation a under Rule 66.2(a)(ii) with regations supporting such statement ited a international application on the international application Date	ard to novelty, in	nventive step or industrial applicability;	
Date c	VI VII VIII of subs	mlsslo	Non-establishment of Lack of unity of inverting Reasoned statement citations and explanations and explanations are certain documents of Certain defects in the Certain observations of the demand	ntion under Rule 66.2(a)(ii) with regations supporting such statement ited international application on the international application Date 17.0 Date 17.0 Date 17.0 Date 17.0 Date Figor	ard to novelty, in	nventive step or industrial applicability;	

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I. Basi	s of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages				
	1-62		as originally filed			
	Clai	ims, Numbers				
	1-18	3	as originally filed			
2.	With lang	ith regard to the language , all the elements marked above were available or furnished to this Authority in the nguage in which the international application was filed, unless otherwise indicated under this item.				
	The	These elements were available or furnished to this Authority in the following language: , which is:				
		the language of publ	inslation furnished for the purposes of the international search (under Rule 23.1(b)). ication of the international application (under Rule 48.3(b)).			
		the language of a tra Rule 55.2 and/or 55.3	inslation furnished for the purposes of international preliminary examination (under 3).			
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing: 					
		contained in the inter	rnational application in written form.			
		filed together with the	e international application in computer readable form.			
		furnished subsequen	ntly to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the in the international application as filed has been furnished.					
		The statement that the listing has been furnit	he information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.			established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).			
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this			
6.	Add	itional observations, i	f necessary:			

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- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-18

No:

No:

Inventive step (IS)

Yes: Claims

Claims

Claims

6,8

No: Claims

1-5,7,9-18

Industrial applicability (IA)

Yes: Claims

1-18

see separate sheet

2. Citations and explanations

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: WO 98/04772 A (MOONEY WILLIAM; UNILEVER PLC (GB); UNILEVER NV (NL)) 5 February 1998 (1998-02-05)

D2: US-A-4 780 101 (WATANABE AKIO ET AL) 25 October 1988 (1988-10-25)

D3: EP-A-0 537 578 (BAYER AG) 21 April 1993 (1993-04-21)

1) CLAIMS 1-14

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-5, 7, and 9-14 does not involve an inventive step in the sense of Article 33(3) PCT.

1.1) Claim 1: the document **D1** is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (cf. examples) a method of treating finished garments comprising cellulosic materials with cross-linking agents (e.g. 1,2,3,4butanetetracarboxylic acid).

The subject-matter of claim 1 differs from this known method in that the cross-linking agent is blocked and can be thermally activated.

The problem to be solved by the present invention may therefore be regarded as to find a method of cross-linking cellulosic materials wherein the cross-linking agent is activated by the application of heat.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons: it is suggested in D1 (cf. page 4, lines 5-11) that esters of polycarboxylic acids can be used in the method as an alternative to the acids as such. Moreover, a thermal curing step is used in the method, which would activate the polycarboxylic acid esters.

Furthermore, the subject-matter of claim 1 cannot be considered as involving an inventive step if the document D2 or D3 is assumed to be the closest state of the art.

- 1.2) Dependent claims 2-5, 7, and 9-14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step.
- 1.3) Claims 6 and 8: the document D1 is regarded as being the closest prior art to the subject-matter of claims 6 and 8, and shows (cf. examples) a method of treating finished garments comprising cellulosic materials with cross-linking agents.

The subject-matter of claims 6 and 8 differs from this known method in that:

- the cross-linking agent is blocked and can be thermally activated; and
- the cross-linking agent is blocked by one of the alcohols and imides recited in claim 6. The subject-matter of claims 6 and 8 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to find an alternative method for treating finished cellulosic garments.

The solution to this problem proposed in claims 6 and 8 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: although it is suggested in in D1 (cf. page 4, lines 5-11) that esters of polycarboxylic acids can be used in the method as an alternative to the acids as such, there is no incentive in D1, nor in the other cited documents, to use the specific esters recited in claim 8 or to use the alcohols recited in claim 6 for the esterification.

2) <u>CLAIMS 15-18</u>

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 15-18 does not involve an inventive step in the sense of Article 33(3) PCT.

2.1) Claim 15: the document D1 is regarded as being the closest prior art to the subject-matter of claim 15, and discloses (cf. examples) a composition comprising a cross-linking agent for cellulosic materials, suitable for use in the present method.

The subject-matter of claim 15 differs from this known composition in that the cross-

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linking agent is blocked and can be thermally activated.

The problem to be solved by the present invention may therefore be regarded as to find a composition for cross-linking cellulosic materials, wherein the cross-linking agent is activated by the application of heat.

The solution proposed in claim 15 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons: it is suggested in D1 (cf. page 4, lines 5-11) that esters of polycarboxylic acids can be used in the composition as an alternative to the acids as such. Moreover, a thermal curing step is used in the method, which would activate the polycarboxylic acid esters.

2.2) Dependent claims 16-18 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step.